

Figure 1

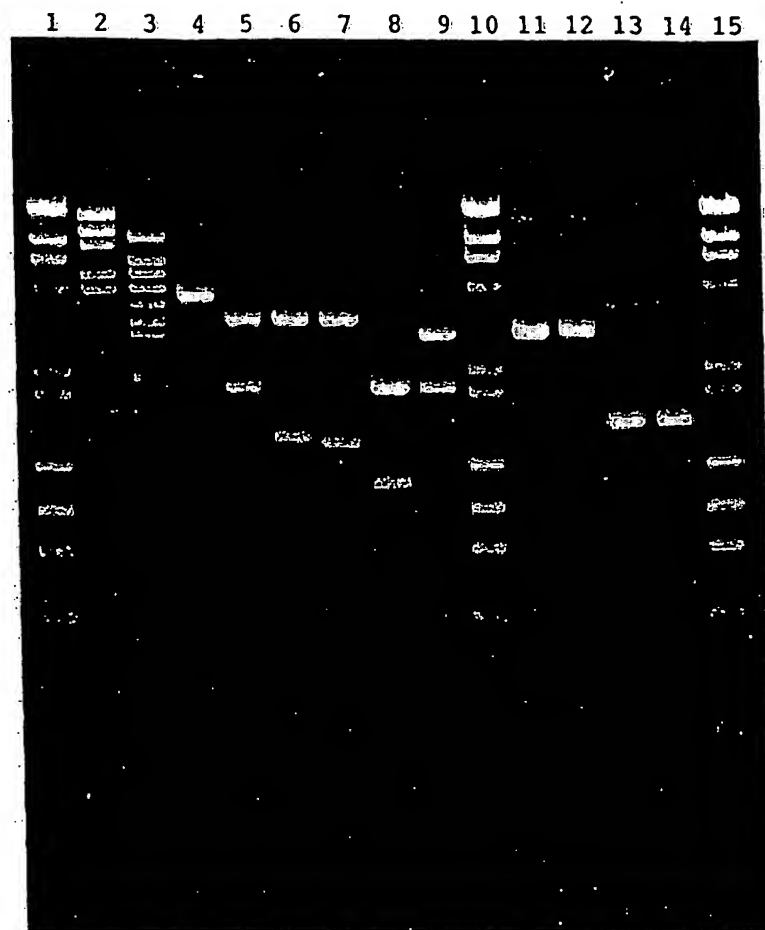


Figure 2

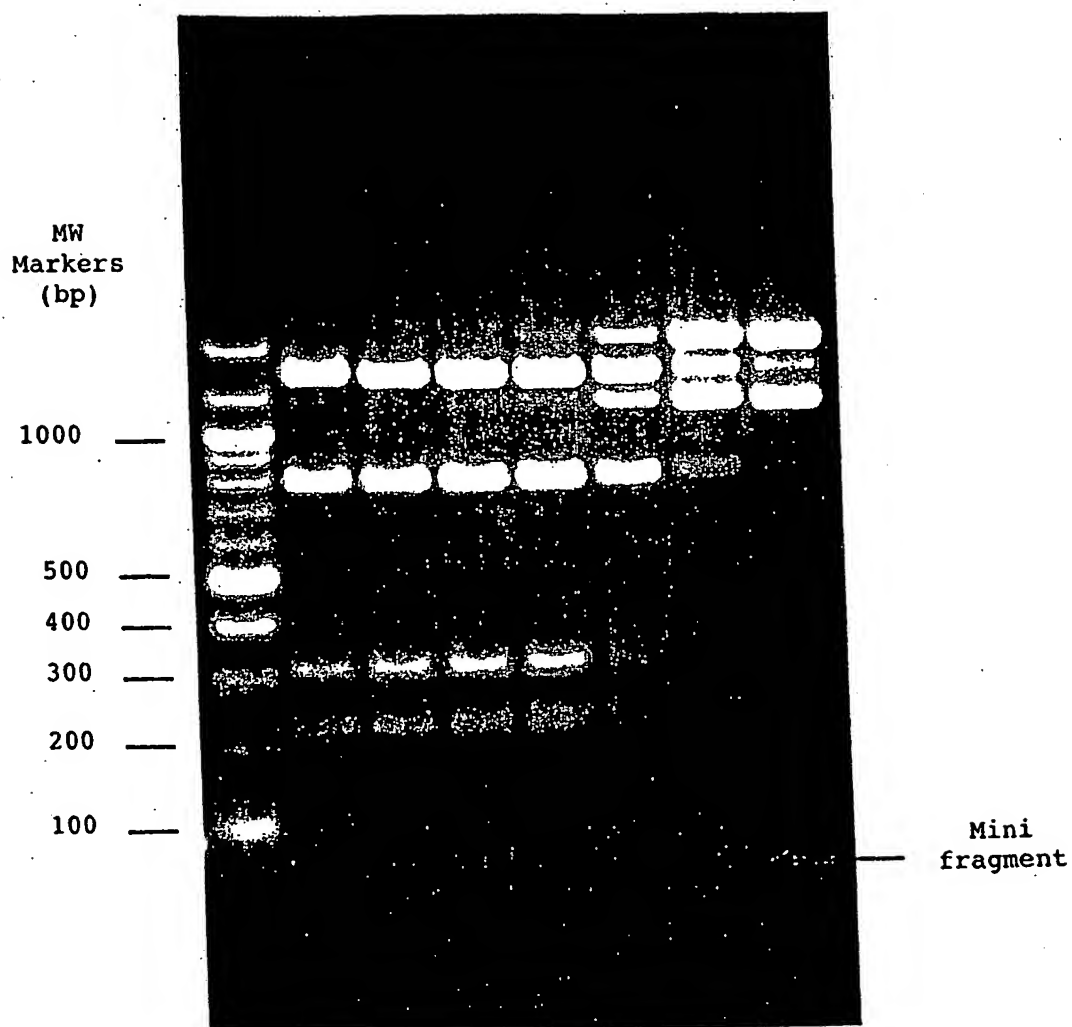


Figure 3

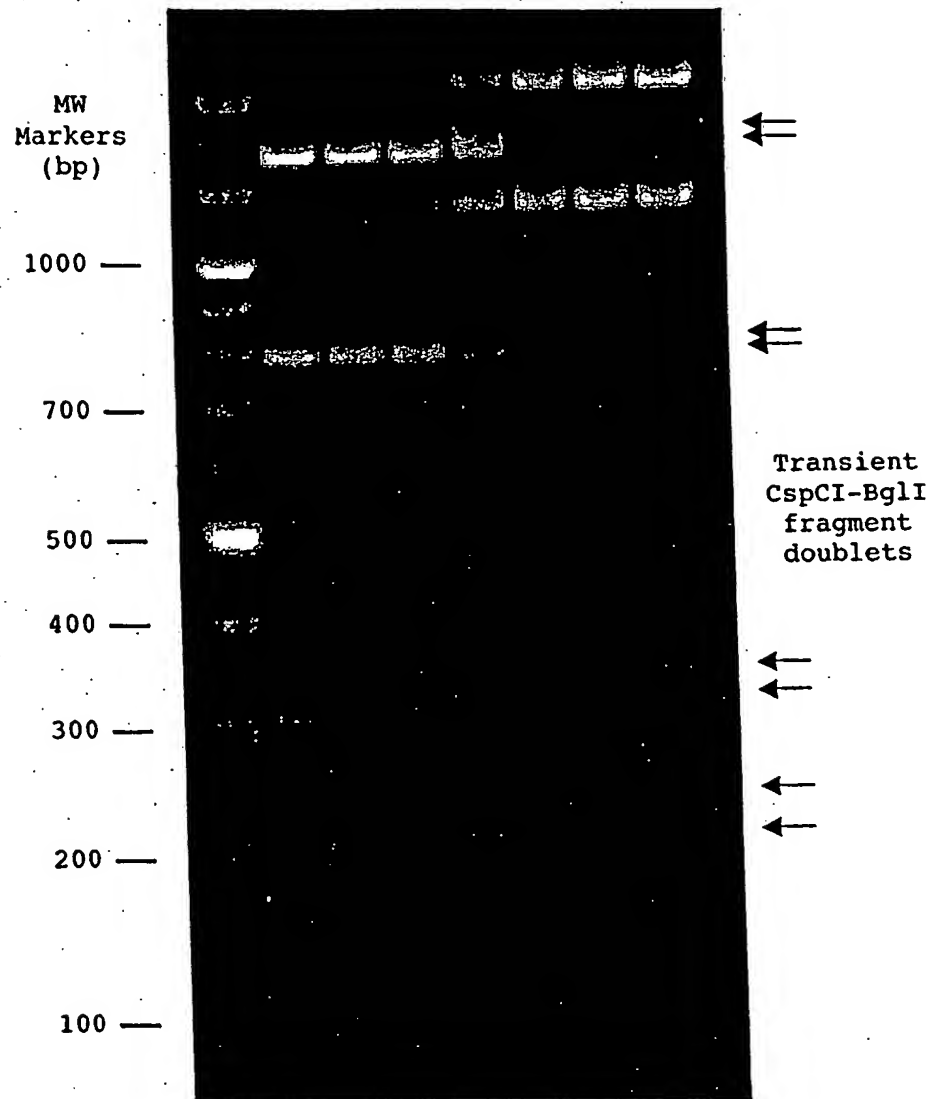


Figure 4a

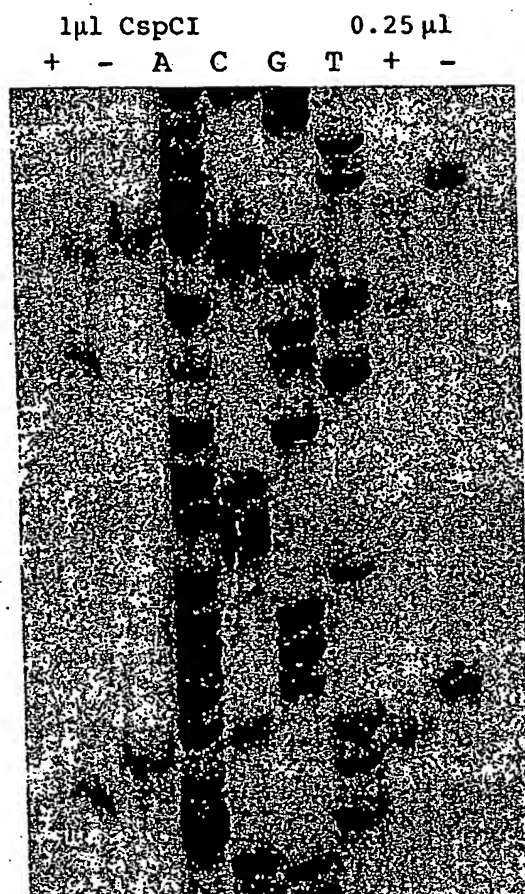


Figure 4b

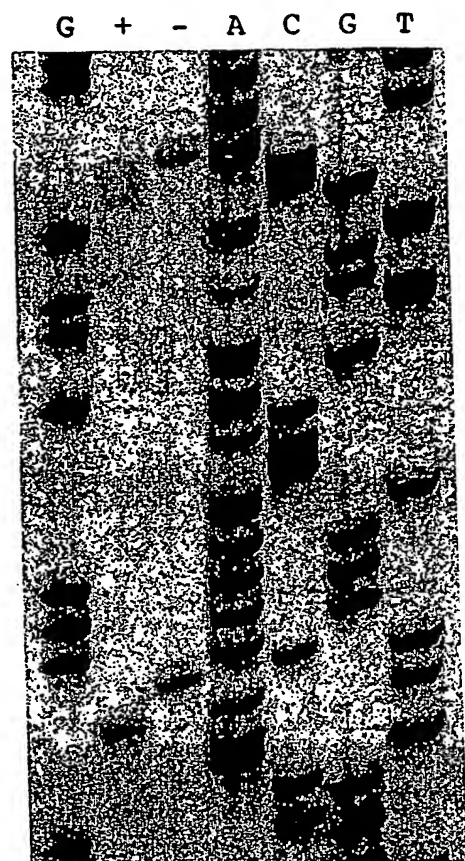


Figure 5a. pCsp-4, fwd primer (SEQ ID NO:1)

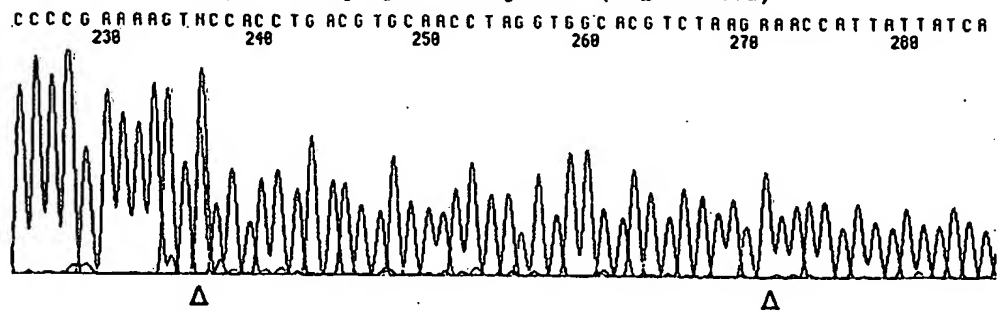


Figure 5b. pCsp-4, rev primer (SEQ ID NO:2)

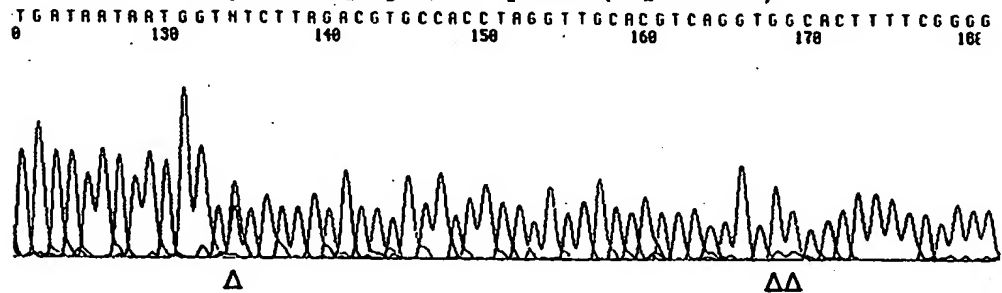


Figure 5c. pCsp-1, fwd primer (SEQ ID NO:3)

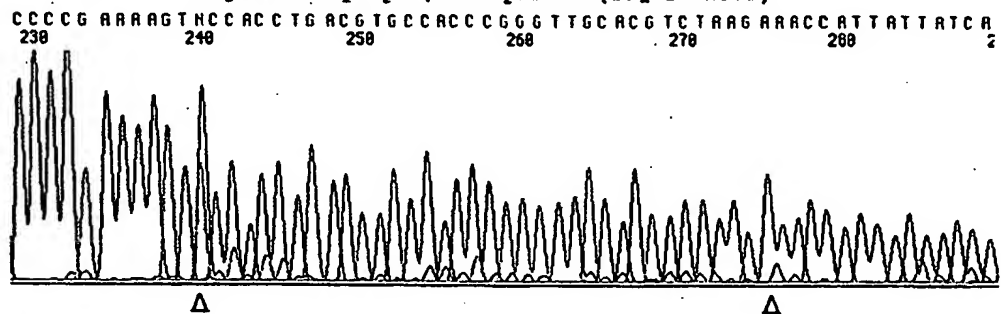


Figure 5d. pCsp-1, rev primer (SEQ ID NO:4)

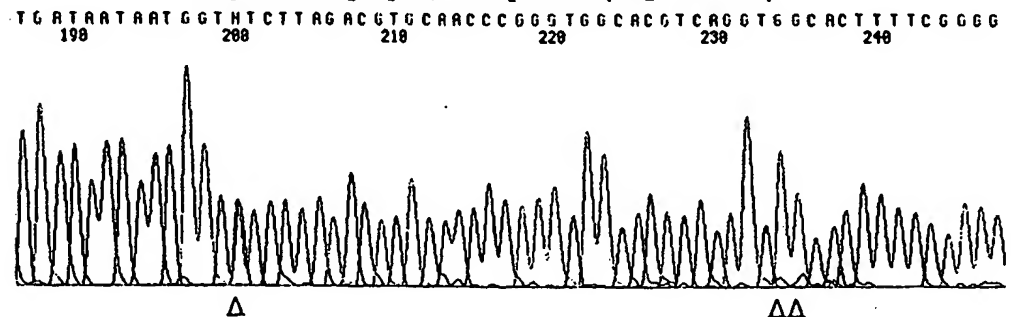


Figure 6-2

2151 TGCACGAGTT TATTTGGACG AAGGCAAAAA TCTCCGAAGA AGAAAAAGCCT
2201 CTGCTGGTGA GTGGGACCTT GATTGCGTTG ATGAACAACA CATTTCATCAA
2251 GACCTTTGAC GCTCTACCTG CAGAAGATGT GCAGGAAGCG TGGCTGACGG
2301 CTATCAAGAA GGAGCTGGAC AAAGCTTCTA TCCCCAGGC CAAGAAGGAC
2351 ACGATGCTGC AGCCGTATAC GACGATTGCG GTTAATCCCA ATCTTGGCAA
2401 GCCTGACAGC AAGACGGCTA AAGAGTATCC AGATGGAGTT TTCAAGGAAA
2451 TAATCACCCG CATCGCCGAC AACGTCTGGC CCTACATCAA TGCTTTTCAC
2501 GACTTTGATG TGGTCGGACA ATTCTACGGT GAGTTTCTGA AATATACTGC
2551 GGGCGACAAA AAAGCGCTGG GCATCGTGCT GACGCCGCGC CATGTGGCTG
2601 AACTGTTCTC GCTCATCGCC AACGTTAACC CCAAGTCTAA GGTGCTGGAC
2651 ATCTGTGCGG GCACGGGCGG CTTTCTCATC TCGGCCATGC AACACATGCT
2701 CAAGAAGGCC GTAACGGACA AAGAGCGCAA CGACATCAAG CAAAATCGGC
2751 TCATCGGGAT TGAAAACAAC CCCAAGATGT TTGCCTTGGC TGCCAGCAAC
2801 ATGATTCTGC GTGGTGTATG TAAGGCTAAC CTGCACCAGG CCAGTTGCTT
2851 TGATAATGCA GTGATTGCGG CCGTGCAGAA GATGAAGCCC AACGTGGGCA
2901 TGCTTAACCC CCCGTATTCT CAGTCCAAGA GCGACGCGGA ACTGCATGAG
2951 CTGTATTTCTG TCAAGCAAAT GCTCGACACG CTTACACCAG GTGGAGTTGG
3001 TATCGCGATT GTTCCCATGT CAAGCGCCAT CTCGCCAAC CCAATGCGTG
3051 AAGAGCTGAT GAAGTACCAC TCACTGGATG CGGTCATGTC AATGCCCCAG
3101 GAGCTGTTTT ATCCAGTGGG CACGGTCACC TGTGTCATGG TCTGGATTGC
3151 CGGTGTGCCA CATGACAAA TGTTCCAAGAA GACATGGTTT GGCTACTGGC
3201 GCGACGATGG CTTTGTGAAA ACCAAGCATA AGGGGCGCAT CGACATGAAT
3251 GGCACCTGGC CAGACATCCG TGACCGATGG ATTGAAATGT ATCGCAATCG
3301 CGAAGTGCAT GCTGGCGAGA GCATCATGCA GAAGGTAGGC CCCGATGATG
3351 AATGGTGC GC TGAAGCCTAT ATGGAAACGG ACTACTCAGT GCTGACTCAG
3401 TCCGACTTTG AGAAGGTCGT TCAAAGCTAC GCGCTATTTA AACTATTTGG
3451 TCAAGGCAGT AGCCAGTCCG AAGTGAAAGG GGCAACGGAT GCCGAAGATT
3501 AACGACCTTT TTCATCTGGA GTACGGTCAC AGCCTGGAGT TGAACCGGCT
3551 AGAGCAATCC ACAGCAGCCG ATGCCGTCAA CTTGCTTGGG CGGGCAGCTA
3601 GGAACAATGG AGTCACCGCA CGCGTGGCTC CCCCTCCAAA CTTGAAACCG
3651 GCAGCCGCAG GCACCATCAG CGTAGCGCTG GGAGGGCAAG GTGGCGCAGG
3701 AGTCGCCTTC CTCCAACCGC GTCCCTACTT TTGTGGCCGC GATGTGATGG
3751 TGCTGACCCC CAAGAAGCAC ATGACAGACC AAGAAAAGCT GTGGTGGGTC
3801 ATGTGCATCA CAGCCAACCG TTTCCGCTTT GGATTTGGTC GCCAAGCTAA
3851 TCGGACGCTA AAGGACTTGA ATCTGCCTGC GCCCCAAAAA ACTCCAAGCT
3901 GGGTGCATAC AGCGAACCCC GATGCCTACC AAGGTGTCAG GTCCCCCGCA
3951 AGTGTTTCATC CAGTCGGCAC GCTGGCTGTG AGCAACTGGA AGGCTTTCAT
4001 TCTTCAAGAC TTGTTTACCA TCCGTAAAGG ACAGCGACTC ACCAAGGCCA
4051 ACATGTTGCC CGGTACGGTG CCCTACATCG GCGCATCGGA CACTTCCAAC
4101 GGCCTTACTG CGCACATCGG GCAAAAACCA ATCCACGAGG CGGGCACCAT
4151 CAGCGTCACA TATGACGGTT CAATAGCTGA AGCGTTTAC GACCCCTCCC
4201 CATTTTGGGC ATCGGATGCT GTGAACGTGC TCTATCCCAA GGGTTTCACA
4251 CTCACACCGG CCACTGCCTT GTTTATCTGC GCAATCATCA GGATGGAGAA
4301 ATATCGCTTC AACTATGGCC GAAAATGGCA CTTAGAGCGT ATGCGAGAGA
4351 CAGTTATCAG GTTACCAGCT ACTGCAACAG GTGCACCAGA TTGGGACTTT
4401 ATGGAGAAAT ACATCAAAAC TTTGCCCTAT AGCTCGCAGT TGCAATAATC

Figure 6-3

4451 ATGGCTGATT TCCTAAATTT CCTGCCGCAT CTACGGGTAT TGCATGTTCA
4501 GGACGGTGGT GATCATCGCT AGGTGGAGGC GGAAAGCCGT GTTTGTCTGA
4551 CCGCTTGCCC GGCCTGCGGT GAAAAGCCTT CCCATTCAGG GAAGGCTTTA
4601 ATCGAGTTAT AGATCT

Figure 7a (SEQ ID NO:6)

```
1 ATGGCGAACG AACGCAAAAC AGAATCCTTA GTTCGAGACC AGCTACGGAC
51 ATTTGGCTAC TACGAACCGG ACAACGGCAT TTCTGTAGAG GAGCAAAAGT
101 CCGAGATTGT CAAGATTAAG GGTTCGCTTT CAAAAGCAAG TAAGAACGCC
151 AAGGGCAATA TTGGTTATCC CGAGTTCATC ATCTCTAACC GGAAAGATAC
201 TGCATTCTCTG ATAGTTGTGG AGTGCAAGCC GGATGTGAAA AAGCACGAGA
251 GCCCAAGCCG TGATAAGCCG GTAGACTATG CCGTGGATGG CGTTCTCCAC
301 TACGCCAGAC ACCTAGCCAA GCACATAACC GTATTGGCGG TGGCTGTGAG
351 CGGCACGACG GCAAGTTCTA TGAAGGTGTC CAACTTCCTT GTGCCTGCGG
401 GTACCACGGA TGTGAAGGCG CTGGTCAACG AGAGTAATTC CTCAGTTGCC
451 GAATTGGTGC CTTATGATGA CTACTACCGC CTGGCGTCTT ATGATCCGGA
501 TGTTCGCTCAG AAGCGCCACT CTGACTTGCT GGCCTTCTCA CGCGAGCTGC
551 ACGAGTTTAT TTGGACGAAG GCAAAAATCT CCGAAGAAGA AAAGCCTCTG
601 CTGGTGAGTG GGACCTTGAT TGCCTTGATG AACAACACAT TCATCAAGAC
651 CTTTGACGCT CTACCTGCAG AAGATGTGCA GGAAGCGTGG CTGACGGCTA
701 TCAAGAAGGA GCTGGACAAA GCTTCTATCC CCCAGGCCAA GAAGGACACG
751 ATGCTGCAGC CGTATACGAC GATTGCGGTT AATCCCAATC TTGGCAAGCC
801 TGACAGCAAG ACGGCTAAAG AGTATCCAGA TGGAGTTTTT AAGGAAATAA
851 TCACCCGCAT CGCCGACAAC GTCTGGCCCT ACATCAATGT CTTTCACGAC
901 TTTGATGTGG TCGGACAATT CTACGGTGAG TTTCTGAAAT ATACTGCGGG
951 CGACAAAAAA GCGCTGGGCA TCGTGCTGAC GCCGCGCCAT GTGGCTGAAC
1001 TGTTCGCGCT CATCGCCAAC GTTAACCCCA AGTCTAAGGT GCTGGACATC
1051 TGTGCGGGCA CGGGCGGCTT TCTCATCTCG GCCATGCAA ACATGCTCAA
1101 GAAGGCCGTA ACGGACAAAG AGCGCAACGA CATCAAGCAA AATCGGCTCA
1151 TCGGGATTGA AAACAACCCC AAGATGTTTG CCTTGGCTGC CAGCAACATG
1201 ATTCTGCGTG GTGATGGTAA GGCTAACCTG CACCAGGCCA GTTGCTTTGA
1251 TAATGCAGTG ATTGCGGCCG TGCAGAAAGT GAAGCCCAAC GTGGGCATGC
1301 TTAACCCCCC GTATTGCGAG TCCAAGAGCG ACGCGGAAC TGCATGAGCTG
1351 TATTTGCTCA AGCAAATGCT CGACACGCTT ACACCAGGTG GAGTTGGTAT
1401 CGCGATTGTT CCCATGTCAA GCGCCATCTC GCCCAACCCA ATGCGTGAAG
1451 AGCTGATGAA GTACCACTCA CTGGATGCGG TCATGTCAAT GCCCAGGAG
1501 CTGTTTTATC CAGTGGGCAC GGTACCTGT GTCATGGTCT GGATTGCCGG
1551 TGTGCCACAT GAGCAAATGT CCAAGAAGAC ATGGTTTGGC TACTGGCGCG
1601 ACGATGGCTT TGTGAAAACC AAGCATAAGG GCGCATCGA CATGAATGGC
1651 ACCTGGCCAG ACATCCGTGA CCGATGGATT GAAATGTATC GCAATCGCGA
1701 AGTGCATGCT GGCGAGAGCA TCATGCAGAA GGTAGGCCCC GATGATGAAT
1751 GGTGCGCTGA AGCCTATATG GAAACGGACT ACTCAGTGCT GACTCAGTCC
1801 GACTTTGAGA AGGTCGTTCA AAGCTACGCG CTATTTAAAC TATTTGGTCA
1851 AGGCAGTAGC CAGTCCGAAG TGAAAGGGGC AACGGATGCC GAAGATTAA
```


Figure 7b (SEQ ID NO:6)

```
1 ATGCCGAAGA TTAACGACCT TTTTCATCTG GAGTACGGTC ACAGCCTGGA
51 GTTGAACCGG CTAGAGCAAT CCACAGCAGC CGATGCCGTC AACTTCGTTG
101 GACGGGCAGC TAGGAACAAT GGAGTCACCG CACGCGTGGC TCCCCCTCCA
151 AACTTGAAAC CGGCAGCCGC AGGCACCATC AGCGTAGCGC TGGGAGGGCA
201 AGGTGGCGCA GGAGTCGCCT TCCTCCAACC GCGTCCCTAC TTTTGTGGCC
251 GCGATGTGAT GGTGCTGACC CCCAAGAAGC ACATGACAGA CCAAGAAAAG
301 CTGTGGTGGG TCATGTGCAT CACAGCCAAC CGTTTCCGCT TTGGATTGG
351 TCGCCAAGCT AATCGGACGC TAAAGGACTT GAATCTGCCT GCGCCCCAAA
401 AAACCTCAAG CTGGGTGCAT ACAGCGAACC CCGATGCCTA CCAAGGTGTC
451 AGGTCCCCCG CAAGTGTTCA TCCAGTCGGC ACGCTGGCTG TGAGCAACTG
501 GAAGGCTTTC ATTCTTCAAG ACTTGTTTAC CATCCGTAAA GGACAGCGAC
551 TCACCAAGGC CAACATGTTG CCCGGTACGG TGCCCTACAT CGGCGCATCG
601 GACACTTCCA ACGGCGTTAC TGCGCACATC GGGCAAAAAC CAATCCACGA
651 GGGCGGCACC ATCAGCGTCA CATATGACGG TTCAATAGCT GAAGCGTTTT
701 ACCAGCCCTC CCCATTTTGG GCATCGGATG CTGTGAACGT GCTCTATCCC
751 AAGGGTTTCA CACTCACACC GGCCACTGCC TTGTTTATCT GCGCAATCAT
801 CAGGATGGAG AAATATCGCT TCAACTATGG CCGAAAATGG CACTTAGAGC
851 GTATGCGAGA GACAGTTATC AGGTTACCAG CTACTGCAAC AGGTGCACCA
901 GATTGGGACT TTATGGAGAA ATACATCAAA ACTTTGCCCT ATAGCTCGCA
951 GTTGCAATAA
```

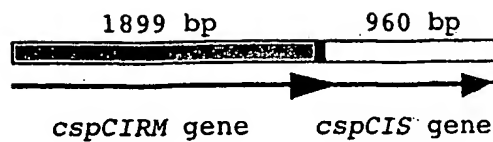


Figure 8a

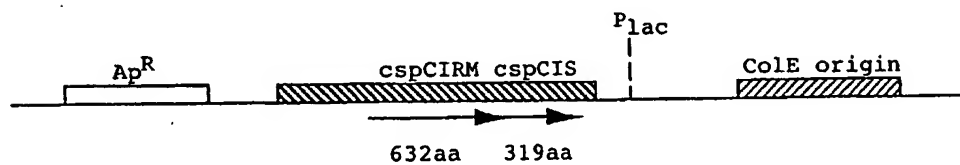


Figure 8b

Figure 9a (SEQ ID NO:8)

1 MANERKTESL VRDQLRTFGY YEPDNGISVE EQKSEIVKIK GLLSKASKNA
51 KGNIGYPEFI ISNRKDTAFL IVVECKPDVK KHESPSRDKP VDYAVDGV LH
101 YARHLAKHYT VLAVAVSGTT ASSMKVSNFL VPAGTTDVKA LVNESNSSVA
151 ELVPYDDYR LASYDPDVAQ KRHSDLLAFS RELHEFIWTK AKISEEEKPL
201 LVSGTLIALM NNTFIKTFDA LPAEDVQEAW LTAIKKELDK ASIPQAKKDT
251 MLQPYTTIAV NPNLGKPSDK TAKEYPDGVF KEIITRIADN WVPYINV FHD
301 FDVVGQFYGE FLKYTAGDKK ALGIVLTPRH VAELFSLIAN VNP KSKVLDI
351 CAGTGGFLIS AMQHMLKKAV TDKERN DIQ NRLIGIENNP KMFALAASNM
401 ILRGDGKANL HQASCFDNAV IAAVQKMKPN VGMLNPPYSQ SKSDAELHEL
451 YFVKQMLDTL TPGGVGIAIV PMSSAISPNP MREELMKYHS L DAVMSMPQE
501 LFYPVGT VTC VMVWIAGVPH EQMSKKTWFG YWRDDGFVKT KHKGRIDMNG
551 TWPDIRDRWI EMYRNRE VHA GESIMQKVGP DDEWCAEAYM ETDYSVLTQS
601 DFEKVVSQSYA LFKLFGQGSS QSEVKGATDA ED

Figure 9b (SEQ ID NO:9)

1 MPKINDLFHL EYGHSLELNR LEQSTAADAV NFVGRAARNN GVTARVAPPP
51 NLKPAAAGTI SVALGGQGGA GVAFLQPRPY FCGRDVMVLT PKKHMTDQEK
101 LWWVMCITAN RFRFGFGRQA NRTLKDLNLP APQKTPSWVH TANPDAYQGV
151 RSPASVHPVG TLAVSNWKAF ILQDLFTIRK GQRLTKANML PGTVPYIGAS
201 DTSNGVTAHI GQKPIHEGGT ISVTYDGSIA EAFYQPSPFW ASDAVNVLYP
251 KGFTLTPATA LFICAIIRME KYRFNYGRKW HLERMRETVI RLPATATGAP
301 DWDFMEKYIK TLPYSSQLQ